

CLAIMS

1. A robot comprising:
 - a light emitting means for functioning as eyes for the sake of appearance;
 - an external sensor for detecting the external condition and input from outside; and
 - a control means for flashing said light emitting means in order to express the emotion based on the output of said external sensor.
2. A robot as defined in Claim 1, characterized by:
 - said light emitting means is formed of light emitting diode.
3. A robot as defined in Claim 1, characterized by:
 - said control means;
 - expresses the strength of said emotion by flashing pattern of said light emitting means.
4. A robot as defined in Claim 1, comprising:
 - a plurality of light emitting means emitting lights of different colors respectively; and characterized by:
 - said control means;
 - expresses said emotion by said color of said light emitting means flashing the light.

5. A robot as defined in Claim 1, comprising:

a moving unit; and a driving means for driving said moving unit; and characterized by:

said control means;

expresses said emotion by controlling said driving means and driving said moving unit with the predetermined pattern in addition to the flashing of said light emitting means.

6. A robot as defined in Claim 1, characterized by:

said control means;

updates the emotion model which the pre-held emotion is modeled based on the output of said external sensor; and

determines the emotion based on the emotion model updated;

and

flashes said light emitting means so that said emotion determined will be expressed.

7. A robot as defined in Claim 1, characterized by:

said light emitting means;

has the light emitting unit of a plurality of shapes according to said emotion to be expressed.

8. A robot as defined in Claim 1, characterized by:

said robot comprising a head; and

said light emitting means; is placed on said head and covered with a semi-transparent cover.

9. A control method of the robot comprising the light emitting means to function as eyes for the sake of appearance and an external sensor for detecting the external condition and/or inputs from the outside, comprising:

the first step for recognizing said external condition and/or said input from the outside based on the output of said external sensor; and

the second step for flashing said light emitting means to express emotions based on said recognition result.

10. A control method of the robot as defined in Claim 9, characterized by:

said second step;

expresses the strength of said emotion according to the flashing pattern of said light emitting means.

11. A control method of the robot as defined in Claim 9, characterized by:

said robot comprising multiple light emitting means that emit lights with different colors respectively; and

said second step;

expresses the emotion by flashing said colors of said light

emitting means.

12. A control method of the robot as defined in Claim 9, characterized by:

said robot comprising; a moving unit, and a driving means for driving said moving unit; and

said second step;

expresses said emotion by controlling said driving means and driving said moving unit in addition to the flashing of said light emitting means.

13. A control method of the robot as defined in Claim 9, characterized by:

said second step;

updates the emotion model which the pre-held emotion is modeled based on outputs of said external sensor;

determines emotion based on the emotion model updated; and

flashes said light emitting means so that said emotion determined will be expressed.

14. A recording medium in which the control program of the robot having the light emitting means to function as eyes for the sake of appearance and an external sensor for detecting the external condition and/or inputs from the outside is recorded, characterized by:

said control program comprising;

the first step for recognizing the external condition and/or input from the outside based on the output of said external sensor; and

the second step for flashing said light emitting means to express emotions based on said recognition result; and

said control program is recorded onto said recording medium.

15. A recording medium as defined in Claim 14, characterized by:
in said second step;

the strength of said emotion is expressed by the flashing pattern of said light emitting means.

16. A recording medium as defined in Claim 14, characterized by:
said robot comprising multiple light emitting means emitting lights with different colors respectively; and

said second step;

expresses said emotion by said colors flashing of said light emitting means.

17. A recording medium as defined in Claim 14, characterized by:
said robot comprising;

a moving unit, and a driving means for driving said moving unit; and

said second step;

expresses said emotion by driving said moving unit with the predetermined pattern controlling said driving means in addition to flashing said light emitting means.

18. A recording medium as defined in Claim 14, characterized by:
- said second step;
 - updates the emotion model which the pre-held emotion is modeled based on the recognition result at the first step;
 - determines emotion based on said updated emotion model; and
 - flashes said light emitting means to express said emotion determined.

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